

Succession Gardening

WHAT

A method of planting where one staggers plantings or uses different maturity rates to extend harvest.

WHY

Grow what you want to eat, in the amount you can use or manage through eating, trading, or preserving. Harvest food for as long as possible and extend one's season.

HOW

Through gardening planning, the use of a gardening calendar, and becoming a "constant gardener."

TYPES OF SUCESSION GARDENING

SAME VEGETABLE, STAGGERED PLANTING

Plant quick growing things every two weeks for continual harvest.

Lettuce

Spinach

Cilantro

Radishes

DIFFERENT VEGETABLES IN SUCCESSION

Plant one crop followed by another throughout the seasons.

Peas then Beans
Garlic then Peppers
Lettuce then Squash
Early Brassicas then Corn

PAIRED VEGETABLES IN THE SAME SPOT

Plant quick growing things
by slow things, knowing that
quick ones will be gone
before the slow ones get big.
Tomatoes and cilantro
Squash and lettuce

SAME VEGETABLE DIFFERENT MATURITY RATE

Start and transplant these veggies at the same time but have a longer harvest due to different "days to harvest."

Tomatoes Radicchio Cabbage / Broccoli

CONCEPTS TO KEEP IN MIND



Footprint

If pairing vegetables in the same spot be mindful of the footprint of each of the plants during their growing season. Don't impact the growth of the slow growing plant by overcrowding it with quick plants.



Rotation

Try to follow plant rotation best practices if possible. If you plant a bed with spring brassicas, try not to repeat that planting with fall brassicas.



Friends and Enemies

AKA Companion planting. Some plants grow well together and others don't. When succession gardening try not to pair enemies together - onions and potatoes for example. Do pair friends! Tomatoes and Carrots.



Needs

Plants can have different needs and these need to be considered when making pairings. Tomatoes do better with drip irrigation but carrots need some overhead watering to germinate.



Plant Families for Rotation 1 Lilac Alliaceae (onion

Y	1	Lilac	Alliaceae (onion family) – onion, shallot, leek, garlic
W	1	Blue	Leguminosae (pea & bean family) – all types of pea and bean
	2	Green	Brassicaceae (cabbage family) - calabrese, Brussels sprout, broccoli, cabbage, kohl rabi, cauliflower, kale, mizuna, pak choi, radish, arugula, rutabaga, turnip
	3	Yellow	Solanaceae (nightshade family) – potato, tomato, peppers, eggplant
*	4	Orange	Umbelliferae (carrot family) – celery, celeriac, cilantro, fennel, carrot, parsnip, parsley, dill
	5	Salmon	Cucurbitaceae (marrow family) – zucchini, cucumber, marrow, melon, pumpkin, squash
	5	Pink	Chenopodiaceae (beetroot family) – Swiss chard, perpetual spinach, true spinach, beets
	Any	Grey	Miscellaneous (non-rotation annual crops) eg basil, lettuce, endive, cress, sweet corn, okra, salsify, scorzonera, New Zealand spinach, corn salad, chicory

Portland Nursery Companion Planting Guide



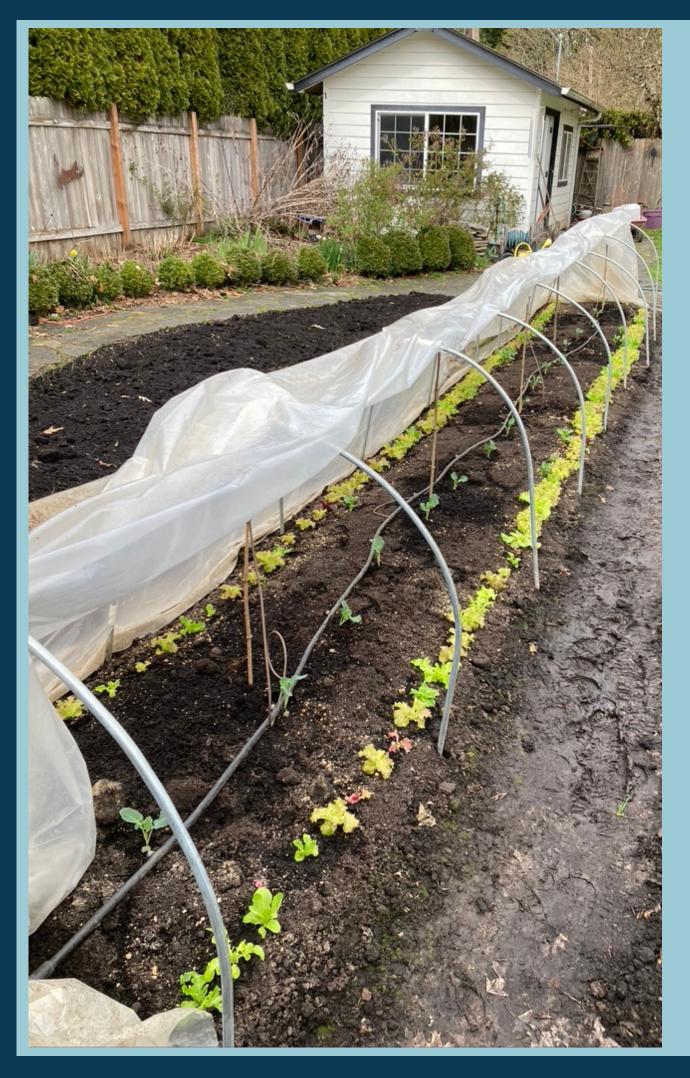
Companion Planting

VEGETABLE	FRIENDS	FOES			
Artichoke	Brassica family				
Asparagus	basil, marigold, nasturtium, parsley, tomato	Allium family			
Bean-Bush	beets, celery, corn, cucumber, nasturtium, peas, radish, strawberry, summer savory	Allium family, fennel			
Bean-Pole	carrot, catnip, celery, chamomile, corn, cucumber, garlic, marigold, nasturtium, oregano, peas, potato, radish, rosemary, spinach, squash, summer savory	Allium family, beets, Brassica family, fennel			
Beets	Allium family, beans (bush), lettuce, brassica family, tomato	beans (pole)			
Broccoli	artichoke, beets, candy tuft, catnip, celery, chamomile, cucumber, dill, garlic, hyssop, mint, nasturtium, onion, oregano, pennyroyal, peppermint, potato, radish, rosemary, sage, southernwood, thyme, wormwood,	basil, beans (pole), peas (snap), strawberry, tomato			
Brussels sprouts	artichoke, beans (bush), beets, celery, chamomile, garlic, nasturtium, onion, peas, pennyroyal, potato, rosemary, sage, southernwood, spinach, thyme, wormwood	basil, kohlrabi, beans (pole), strawberry, tomato			
Cabbage	artichoke, beets, celery, chamomile, cucumber, dill, garlic, nasturtium, onion, peas, pennyroyal, peppermint (potted), potato, rosemary, sage, southernwood, spinach, thyme, wormwood	basil, beans (pole), tomato			
Carrots	beans, candy tuft, chives, leeks, lettuce, onion, parsley, peas, pepper, radish, rosemary, sage, tomato, wormwood	celery, dill			
Cauliflower	artichoke, beans (bush), beets, cabbage, celery, chamomile, garlic, lettuce, nasturtium, onion, peas, potato, rosemary, sage, southernwood, spinach, thyme, wormwood	basil, beans (pole), strawberry, tomato			
Celery	beans, Brassica Family, chives, cilantro, garlic, leeks, nasturtium, spinach, tomato	carrot, parsnip			
Collards	artichoke, beets, celery, chamomile, rosemary, southernwood, thyme, tomato, wormwood	basil, beans (pole)			
Corn	alfalfa, beans, cucumber, geranium (white), jerusalem artichoke, marigold (odorless), melon, parsley, peas, potato, pumpkin, squash, sweet potato	tomato			
Cucumber	beans, broccoli, cabbage, catnip, chives, corn, dill (use sparingly), eggplant, kale, kohlrabi, lettuce, marigold, nasturtium, onion, oregano, peas, radish, sunflower, tomato	basil, marjoram, potato, rosemary, sage, summer savory			
Eggplant	beans, cilantro, cucumber, marigold, pepper, potato				
Garlic	beets, Brassica family, celery, chamomile, lettuce, radish, roses, tomato	beans, peas			
Kale	artichoke, beets, beans (bush), celery, chamomile, cucumber, dill, garlic, lettuce, mint, nasturtium, onion, peas, potato, rosemary, sage, southernwood, spinach, thyme, wormwood	basil, beans (pole), strawberry, tomato			
Kohlrabi	artichoke, beets, brassica family, celery, chamomile, cucumber, garlic, nasturtium, onion, aromatic plants, late cabbage, late potato, radish, rosemary, sage, southern-wood, spinach, thyme, wormwood	basil, beans (pole), pepper, strawberry, tomato			
Leek	carrot, celeriac, celery, onion	beans, peas			
Lettuce	beets, carrot, cauliflower, cucumber, dill (use sparingly), kale, radish, strawberry	Allium family, Brassica family (except cauliflower and kale			
Melon	corn, radish, squash, sunflower, tomato	potato			
Mustard	artichoke, beets, celery, chamomile, garlic, kohlrabi, nasturtium, radish, rosemary, sage, southernwood, thyme, wormwood	basil, beans (pole), tomato			
Onion	beets, brassica family, carrot, chamomile, cucumber, dill, leeks, pepper, potato, roses, spinach, squash, strawberry, summer savory, tomato	asparagus, beans, peas, sage			
Peas	aromatic herbs, beans, brassica family, carrot, cilantro, corn, cucumber, mint, radish, spinach, tomato	Allium family, gladiolas			
Peppers	basil, carrot, catnip, eggplant, nasturtium, okra, onion, parsley, tomato	fennel, kohlrabi			
Potato	beans, brassica family, catnip, cilantro, corn, eggplant, horseradish, marigold, nasturtium, onion, peas	cucumber, pumpkin, spinach, squash, sunflower, tomato			
Radish	beans, beets, broccoli, carrot, chervil, cucumber, garlic, kohlrabi, lettuce, melon, mustard, nasturtium, peas, squash, tomato	hyssop			
Spinach	beans, Brassica family, celery, onion, peas, strawberry	potato			
Squash	beans, borage, catnip, celeriac, celery, corn, marigold, melon, mint, nasturtium, onion, radish	potato, pumpkin			
Strawberry	beans (bush), borage, lettuce, onion, sage, spinach, thyme	Brassica Family			
Tomato	asparagus, basil, bee balm, beets, borage, carrot, chives, cilantro, cucumber, garlic, marigold, melon, mint, nasturtium, parsley, peas, pepper, onion, radish, sage	Brassica family, corn, dill, fennel, potato			
Turnip/Rutabaga	artichoke, beets, celery, garlic, peas, rosemary, sage, southernwood, spinach, thyme, wormwood	basil, beans (pole), hedge mustard, tomato			

Garden Calendar Portland Nursery Veggie Calendar

January	February	March	April	April	May	May	June	July	August	September	October
Seed indoor	Seed indoor	Seed indoor	Seed indoor	Starts	Seed indoor	Starts	Seed outdoor	Seed outdoor	Seed outdoor	Seed outdoor	Seed outdoor
Artichoke	Artichoke	Broccoli	LATE APRIL	Artichoke*	Basil	Artichoke	Arugula	Arugula	Arugula*	Arugula*	Fava beans*
Arugula	Asparagus	Cabbage	Basil	Arugula	Cucumber	Arugula	Asian greens	Asian greens*	Asian greens	Asian greens*	Garlic (cloves)*
Endive	Broccoli	Cauliflower	Cucumber	Asian Greens	Melon	Basil 5/15	Basil* 6/1	Basil	Beets	Beets	Onion (sets)*
Fava Beans	Cabbage	Celeriac	Melon	Beets		Beans	Beans* 6/1	Beans	Broccoli raab	Cabbage (for	Shallots (bulbs)*
Kale	Cauliflower	Celery	Pumpkin	Broccoli*	Seed outdoor	Broccoli	Beets	Beets* 7/1	Cabbage (early)*	spring)	Stranots (builds)
Leeks	Celeriac			Brussels Sprouts		Cabbage (early	Broccoli	Broccoli* 7/1	8/1	Endive	
	- Carrentine	Eggplant*	Squash, summer		Arugula					Accessed to the control of the contr	
ettuce	Celery	Leeks	Squash, winter	Cabbage (early	Asian greens	and late)	Bruss. sprouts*	Brussels Sprouts	Cauliflower	Fava beans*	
Mustard	Chard	Lettuce		types)*	Basil 5/15	Carrots	Cabbage (late)*	Cabbage (early)	Chard* 8/1	Garlic (cloves)*	Cover Crops*
Onions*	Chives	Peppers*	22722222	Carrots	Beans* 5/15	Cauliflower	6/1	Carrots* 7/1	Cilantro	Lettuce*	
Peas	Choi	Scallions	HARDEN	Cauliflower*	Beets	Celeriac	Carrots* 6/15	Cauliflower* 7/1	Collards	Kale	
Scallions	Eggplant 2/15*	Tomatoes*	OFF	Celeriac* 4/15	Broccoli	Celery	Cauliflower	Chard	Kale	Onions (sets)*	Starts
Spinach	Endive	Tomatillos*	SEEDLINGS	Celery* 4/15	Brussels sprouts*	Chard	Chard	Cilantro	Lettuce*	Radish*	Bok Choi
	Kale	Seed outdoor		Chard	Cabbage	Collards	Cilantro	Collards 7/1	Mustard greens	Salad greens*	Cabbage (over
	Kohlrabi	Arugula*	Seed outdoor	Choi	Carrots	Corn 5/15	Corn*	Corn* until 7/15	Peas	Shallots (bulb)*	wintering)
Seed outdoor	Leeks*	Asian greens	Arugula	Cilantro	Cauliflower	Cucumbers	Cucumbers* 6/1	Fennel	Radish		Lettuce
Radish	Lettuce	Asparagus*	Asian greens	Collards	Celeriac	5/15	Dill	(bulbing)* 7/15	Salad greens	700 700 700	Salad greens
- Cartain Cart	Onion*	(crown)	Asparagus	Dill	Celery	Dill	Endive	Kale*	Spinach* 8/1	Cover Crops*	Canada Marria
	Parsley	Chard*	(crown)	Endive*	Chard	Eggplant	Kale	Kohlrabi 7/1	Swiss chard	Cover Crops	
	Peppers 2/15*	Cilantro	Beets*	Fennel	Choi	(cover) * 5/15	Kohlrabi*	Lettuce	Turnips		
* Indicates best	Tomatillo	Choi	Broccoli*	(bulbing)*	Cilantro	Fennel	Lettuce	Parsnips	rumps	Starts	
times and	Tomatoes 2/15*			Jer. Artichoke*	Collards*		Melons* 6/1	Peas	Canada	Kale	November
methods of	Tomatoes 2/15*	Fava Beans	Brussels sprouts			(bulbing)			Starts	Lettuce	
planting.		Garlic (cloves)	Cabbage (early	Kale*	Dill 5/15	Jer. Artichoke	Parsnips	Radish		Salad greens	Seed outdoor
	Seed outdoor	Kale	types)*	Kohlrabi	Fennel (bulbing)	Kale	Pumpkins* 6/1	Scallions	EARLY	Sorrel	Fava beans
Shading	Arugula*	Mustard greens*	Carrots* 4/1	Leeks*	Kale	Kohlrabi	Rutabaga*	Spinach	AUGUST	CO 200	Garlie (cloves)
indicates either	Asparagus*	Peas* 3/1	Cauliflower*	Lettuce	Kohlrabi	Leeks	Scallions	Squash, summer	Basil		the second secon
a Fall Harvest	(crowns)	Potatoes (tuber)	Celeriac* 4/15	Mustard Greens	Leeks (over	Lettuce	Squash, (all) *	until 7/15	Broccoli		Onion (sets)
	Cilantro	Scallions	Celery* 4/15	Peas	wintering)	Peppers (cover)	6/1	Tumips* 7/1	Cabbage		Shallot (bulbs)
or	Fava beans	Spinach*	Chard*	Radicchio	Lettuce	* 5/15	Turnips	Starts	Carrots		
Overwintering	Garlic (cloves)	Starts	Choi*	Salad greens	Parsnips*	Radicchio	Starts	Artichoke	Cauliflower		250000000000000000000000000000000000000
Crop	Mustard Greens	Artichoke	Cilantro*	Scallions	Potatoes *	Salad Greens	Artichoke	Basil*	Collards		Cover Crops
•	Onion*	Arugula	Collards	Sorrel	(tubers)	Scallions	Basil*	Broccoli*	Dill		(some)
Please note:	Onion Bunches*	Asian greens	Dill	Spinach	Pumpkin 5/15	Sorrel	Beans	Bruss. sprouts*	Fennel (bulbing)		
	Onion sets*	Broccoli*	Endive*	оринаси	Radicchio	Spinach	Broccoli	Cabbage*	r ermer (omonig)		December
Planting times									TUDOUCH		December
may be altered	Peas*	Cabbage (early)	Fennel (bulbing)		Radish	Squash (all)	Brussels	Carrots*	THROUGH	1	
depending on	Potatoes (tubers)	Chard	Jer. Artichoke*		Rutabaga	5/15	sprouts*	Cauliflower*	AUGUST		Collect seed
elevation,	Radish	Choi	(tuber)	Herbs to	Salad greens	Tomatoes	Cauliflower	Collards*	Artichoke		catalogs, pour
location, and	Scallions	Cilantro	Kale	Plant any day	Scallions	(cover)* 5/15	Celery	Corn* until 7/15	Asian greens		cup of tea and
the use of a	Spinach*	Green onions	Kohlrabi*	of the year	Spinach*	Tomatillo	Corn*	Cucumbers	Cilantro		
		Jer. Artichoke*	Lettuce*	Chives	Squash, summer	(cover)* 5/15	Cucumbers	Eggplant 'til	Kale*		plan for next
cloche or row	Starts	(tuber)	Mustard Greens		5/15	100 100	Eggplant*	7/15	Lecks		year.
cover.	Artichoke	Kale*	Peas 4/1	Oregano	Squash, winter		Leeks	Kale*	Lettuce		Dec 19
	Peas	Lettuce	Potatoes (tubers)	Parsley	5/15		Melons	Leeks	Mustard greens*		Organize your
	Garlic	Mustard greens	Radicchio	Rosemary	Turnips		Peppers*	Lettuce	Salad greens		garden journal.
	Onions	Onion	Radish	Sage			Pumpkins	Peppers 'til 7/15	Scallions		garden journal.
	Scallions	Peas	Scallions	0.			Squash (all) *	Squash, summer	Spinach*		
	Scallions						8 9 7	1 '	opinacn*		
		Salad greens	Sorrel				Swiss chard	untl 7/15	7.68		
		Spinach	Spinach*				Tomatoes*				
			Turnips*								





Row Covers

WHAT

Material made of plastic or various types of cloth that cover a row of vegetables.

WHY

To provide protection either from cold, heat, insects, or sun.

HOW

By using different structures and materials, cover your rows for the desired outcome.

The Structure

HOOPS

3/4 inch conduit bender - \$50
3/4 inch conduit - 10 ft lengths for a 4 ft raised bed snap clamps for 3/4 inch conduit

IMPROVISED

Tomato cages, metal stakes, wooden structure





Greenhouse Plastic 6 mil thickness, UV Resistant

PROS

Season extension
Plastic can last 5-10 years

CONS

Too hot too fast
Storage
Doesn't let water in
Doesn't allow fo air flow



Fabric Floating Row Cover, "agribon"

PROS

Lets light, rain, and air in
Provides some insect protection
Provides frost protection
Light weight

CONS

Provides less warming than plastic
Rips easily
Comes in many different weights - read carefully before
purchasing



Shade Cloth for a changing climate

BURNING PLANTS AND FRUIT

When the temperature gets so hot that plants and fruit burn, shade cloth may be an option

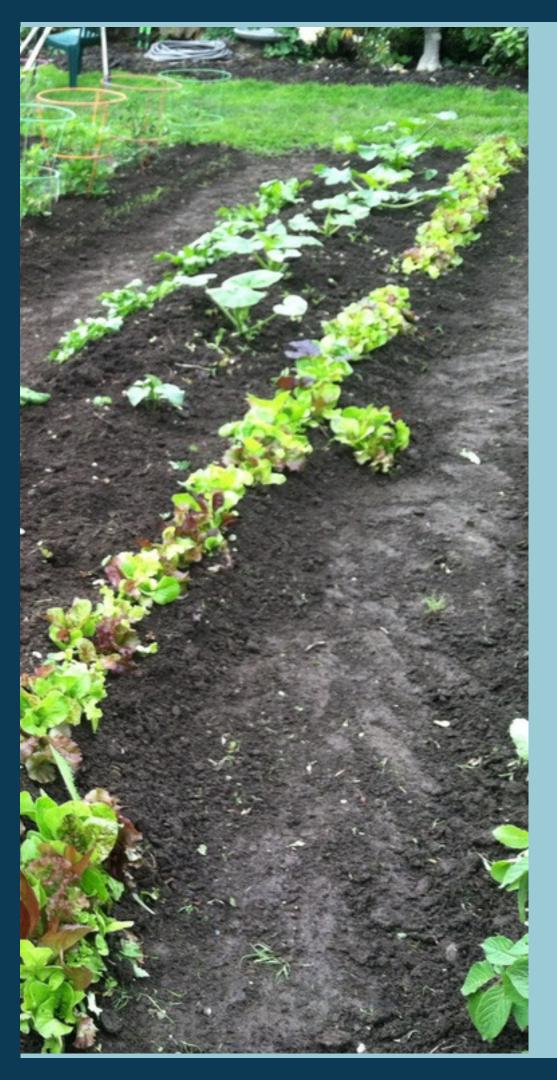


ALL IN ONE OPTIONS

LOCAL AND ONLINE







Thinning

WHAT

Removing seedlings to achieve desired plant spacing.

WHY

To grow its very best, each vegetable needs as much unoccupied space as it can use at its full development.

Also because we planted too many seeds, because germination is uncertain

HOW

Research plant spacing requirements to determine how far apart seedlings should be. Remove extra seedlings so that your plants are correctly spaced.

Thinning Issues



I'VE MET GARDENERS WHO JUST CANNOT THIN OUT CROWDED SEEDLINGS. IT SEEMS LIKE MURDERING CHILDREN TO THEM. I ENTREAT YOU, GENTLEST OF PERSONS, TO RECONSIDER THE NATURE OF PLANTS. THINNING SEEDLINGS IS NOT LIKE DROWNING UNWANTED KITTENS. VEGETABLES DON'T MIND BEING THINNED. THEY ACTUALLY LIKE IT. THEY KNOW YOU ARE HELPING THEM OUT BY THINNING THEM

STEVE SOLOMON

Thinning Issues



IT CAN TAKE DISCIPLINE TO THIN. MAKING THE FIRST CUTS, REMOVING OBVIOUSLY INFERIOR PLANTS, MAY BE EASY. BUT MAKING THE FINAL CUT - THAT IS, PULLING UP OR HOEING OUT PERFECTLY HEALTHY VIGOROUS, WORTHY PLANTS THAT DESERVE TO LIVE AS MUCH AS ANYONE BUT SIMPLY HAPPEN TO BE CLOSE TO OTHER WORTHY PLANTS - THAT CAN BE HARD. I HAVE TO GRIT MY TEETH AND ASK FORGIVENESS FROM HEAVEN WHILE I DO IT.

CAROL DEPPE

TYPES OF THINNING



EAT AS YOU GO

Plant densely and then thin to proper spacing by eating the immature plants

lettuce

spinach

onions

carrots



WAIT FOR TRUE LEAVES

Plant more seeds than needed to ensure germination and then thin when seedlings have true leaves (second set of leaves)

beans

corn

carrots

beets



LEAVE THE BEST

Plant a hill with too many seeds to ensure germination and then thin leaving the best plants once they are established

cucumbers squash

Thinning Stages

"Seedlings should never, ever be allowed to compete with one another for light, water, and nutrients." -Steve Solomon

ONCE EMERGED

Any major clumps of seeds where you may have dropped way too many. During the first week some weaklings will die on their own so wait for major action.

AT END OF TWO WEEKS

Pull out weakest seedlings to give the strong ones growing room. Thin to recommended spacing.

AFTER TWO WEEKS

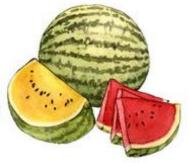
If a seedling emerges after this point, cull it. It probably is an unintended inter-variety cross pollination.

Plant Spacing Territorial Seed Company





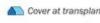
TERRITORIAL SEED COMPANY



Spring Gardening Chart

Vegetable	January	February	March	April	May	June	Soil Temp for Germ	Seed Depth	Thin Plants/Plant Spacing	Row Spacing	Harvest
Artichoke							65-75°F	1/4"	3-5'	4-6'	June-July (2 nd year)
Arugula							50-70°F	1/4-1/2"	6-12"	16-18"	April-June
Asparagus Seed		B 5				- 9	65-80°F	1/4"	10-15"	3-6'	April
Asparagus Crowns								4-6"	10-15"	3-6'	April (3 rd year)
Beans							60-85°F	1"	4-18"	18-36"	June-August
Beans, Fava	I I	100000					45-65°F	1-2"	3-6"	12-30"	June-August
Beets							50-75°F	1/2"	3-4"	12-16"	June onward
Broccoli							55-75°F	1/4"	12-24"	18-36"	June onward
Brussels Sprouts						- 3	55-75°F	1/4"	24"	18-36"	SeptFebruary
Cabbage							55-75°F	1/4"	18-24"	2-4'	June-August
Carrots				0 1			45-85°F	1/4"	1-3"	9-16"	June onward
Cauliflower				8 0			55-75°F	1/4"	12-24"	18-36"	June-August
Celery/Celeriac	Į J						55-70°F	1⁄8"	12"	18-24"	August onward
Chinese Cabbage	Į Į			E C		_	45-75°F	1/4"	12-18"	18-36"	June-July
Collards							55-75°F	1/4"	12-24"	18-36"	June onward
Corn						5 M	65-85°F	1-2"	8-12"	24-30"	August-Sept.
Cucumbers							65-90°F	1/2"	1-2/hill	3-4'	July-September
Eggplant							75-90°F	5/4"	12-18"	2-3'	August-Sept.
Endive							50-70°F	1/4-1/2"	6-12"	16-18"	May-July
Fennel							50-70°F	1/4-1/2"	6-12"	16-18"	May-July
Kale							55-75°F	1/4"	12-24"	18-36"	June onward
Kohlrabi							55-75°F	1/4"	3-8"	12-18"	June onward
Leeks		50000		-		-	50-85°F	1/4-1/2"	4-5"	12-18"	July onward
Lettuce							40-80°F	1/8"	10-16"	16-18"	May onward
Melons						- 93	70-85°F	1/2"	3-4'	5-6'	August-Sept.
Mustard							40-75°F	1/4"	6-18"	9-18"	May onward
Okra				10000			70-90°F	1/2"	12-18"	36"	July-September
Onions, Bulb		-		-			50-75°F	1/8-1/2"	2-7*	12-24"	August-Sept.
Pac Choi							45-75°F	1/4"	12-18"	18-36"	June-July
Parsnips							55-75°F	1/2"	3-4"	12-18"	SeptDecember
Peas				-			45-75°F	1-1 1/2"	N/A	18-24"	May-July
Peppers				(COMM)			70-90°F	1/4"	12-18"	24-30"	July-September
Potatoes								4-6"	24"	24-36"	May-July
Pumpkins/Gourds							65-85°F	1"	3-4'	4-6'	SeptOctober
Radishes				W 1			45-80°F	1/2"	1-2"	8-12"	May-July
Rutabagas							50-75°F	1/4-1/2"	6-8"	12-16"	Sept. onward
Shallot Seed		10000		10000			50-85°F	1/2"	2-4"	12-24"	August-Sept.
Spinach	Į ,						45-75°F	1/2"	3-6"	12"	April-July
Squash, Summer							65-85°F	1-1 1/2"	1-2/hill	3-6'	July-September
Squash, Winter							65-85°F	1-1 1/2"	1-2/hill	3-6'	August-Frost
Sweet Potatoes							65°F		16-18"	12-24"	August-Frost
Swiss Chard							50-75°F	1/2"	10-16"	18-24"	May onward
Tomatoes							70-90°F	1/4"	18-36*	3-4'	July-September
Turnips							50-75*F	1/4-1/2"	6-8"	12-16"	May-July
Watermelon							70-85°F	1/2"	3-4'	5-6'	August-Sept.

Direct sow (based on our area of Cottage Grove, OR) Sow indoors Transplant (determined from a last frost date of approximately May 12°) 🗥 Cover at transplant



Growing Vegetables West of the Cascades

STEVE SOLOMON

Degree to Which Vegetables Can Benefit from Increased Spacing

Great Benefit	Some Benefit	Likes Crowds
Carrots	Swiss chard	Bush peas
Beets	Onions, bulb	
Spinach	Radishes	
Kohlrabi	Turnips	
Broccoli	Arugula (rocket)	
Indeterminate tomatoes	Cauliflower	
Summer squash	Winter squash	
Rutabaga	Determinate tomatoes	
Corn salad	Peppers	
Scallions	Kale	
Pole beans	Bush beans	
Leeks		
Celery (celeriac)		
Pole peas		



Weeding

WHAT

Removing (undesirable) plants from where they are growing.

WHY

To grow its very best, each vegetable needs as much unoccupied space as it can use at its full development.

Also because the undesirable plants often have characteristics that are problematic (vegetables are weak and weeds are strong).

HOW

Through a variety of techniques, including digging, pulling, and hoeing based on what weed one is removing and one's physical abilities.



Weeding and Plant Spacing

HOW WILL YOU WEED?
WHAT CAN YOU PHYSICALLY DO?

Upright
Seated
Hands and Knees
All of the above?

SPACE PLANTS FOR WEEDING

Raised beds
Traditional beds



Upright Weeding Tools





Hand Weeding Tools

Annual Weeds

An annual life cycle means that a weed goes from seed to seed in one growing season or one year.

Purple Dead Nettle. Shining Geranium

Hairy Bittercress. Morning Glory

Herb Robert Annual Grasses

Perennial Weeds

A perennial life cycle means that a weed regrows season after season.

Bindweed Canadian Thistle

Wild Garlic. Italian Lily

Dandelions

Perennial Grasses

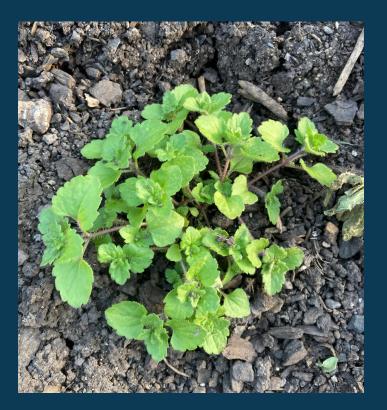
OSU EXTENSION WEED ARTICLE



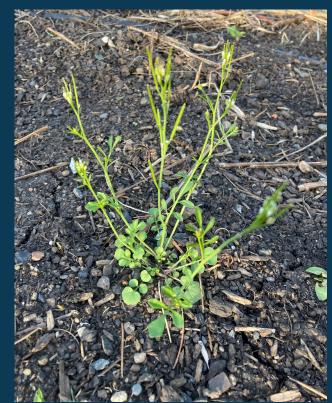


























Weeding Thoughts You can win this fight

Small weeds are easier to kill than big ones.

Big weeds are closer to going to seed or spreading root system.

Sharp tools work better and with less effort.

Pull perennial weeds when it is wet.

Kill annual weeds when it is dry.

Removing the weed's ability to do photosynthesis can work over time.

2-3 inches of mulch can help.

Cover crops in fall and winter will compete with weeds.

